CHART 4 Plant and Equipment Expenditures Billion \$ (Ratio scale) _ TOTAL NONFARM BUSINESS 200 150 MANUFACTURING 50 40 TRANSPORTATION 10 PUBLIC UTILITIES 30 20 անումումումիուկուկուկունունունուն TRADE AND SERVICES 80 60 50 40 վավակակակակակակակակա COMMUNICATION AND OTHER 30

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U.S. Department of Commerce, Bureau of Economic Analysis

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Seasonally Adjusted at Annual Rates

Plant and Equipment Expenditures, the Four Quarters of 1981

U.S. nonfarm business plans to spend \$321.5 billion for new plant and equipment in 1981, 8.8 percent more than in 1980, according to the BEA survey conducted in late July and August (table 1 and chart 4). An 8.4-percent increase was reported in the April-May survey and a 10.2-percent increase was reported in the January-February survey. Spending in 1980 was \$295.6 billion, 9.3 percent more than in 1979.

Respondents to the quarterly survey are not asked to report information on price changes reflected in actual or planned spending. Estimates of actual real (constant-dollar) spending have been constructed as companions to the current-dollar estimates (see tables A and B). These estimates indicate that real spending increased 0.8 percent in 1980. The implicit price deflator for total plant and equipment expenditures derived from them indicates that capital goods prices rose 9 percent from the second quarter of 1980 to the second quarter of 1981. If business expects similar increases in capital goods prices for the remainder of this year, the survey results imply a slight decrease in real spending-about 0.3 percentfrom 1980 to 1981. Real spending increased 2.8 percent in the first quarter and declined 1.7 percent in the second.

Current-dollar spending in the second quarter increased 1.4 percent, to a seasonally adjusted annual rate of \$316.7 billion, following a 4.2-percent increase in the first quarter. Plans reported 3 months earlier were for a slight decline in second-quarter spending; actual spending was higher than planned in both manufacturing and nonmanufacturing industries. In manufacturing, the upward revisions were largest in machinery, transportation equipment, food-beverage, textiles, and petroleum.

Table 1.—Expenditures for New Plant and Equipment by U.S. Nonfarm Business: Percent Change from Preceding Year

	1980 Actu-	re	Planne ported l usiness i	by
	9.3 17.4 15.3 14.1 6.4 30.4 30.4 30.8 10.2 18.5 10.2 18.5 11.7 7.6 22.6 16.8 27.6 20.2 27.1 4.7 18.7 -2.1 5.6 -11.3 4.4 -11.3	Jan Feb.	Apr May	Jul Aug.
Total nonfarm busi-				
ness	9, 3	10, 2	8.4	8, 8
Manufacturing	17.4	12, 1	10,4	9, 5
Durable goods	15.3	12.8	8.6	6.5
Primary metals 1		6.5	9.0	6.6
works		6	-2.9	-3.0
Nonferrous metals Fabricated metals		15.3	20.2	12.4
		9.9	1.3	-3.0
Electrical machinery Machinery, except elec-		25.7	15.4	11.0
trical	10.2	20.6	12.9	14.8
ment 1	10 5	5.6	3.5	3.1
Motor vehicles		.4	6.8	13, 5
Aircraft		8.5	-1.7	-7.5
Stone clay and place		2.1	-9.2	-15.2
Stone, clay, and glass Other durables		16.0	21.4	16. 3
Nondurable goods		11.4	12.3	12, 2
Food including beverage.		7.1	13.8	12.5
Textiles	7.6	6.2	4	-1.1
Paper		-1.1	9	-3.8
Chemicals		4.1	.2	
Petroleum		21.7	26.8	27, 1
RubberOther nondurables		32.7 5.9	7.5	3, 8 9, 4
Nonmanufacturing	4.7	8.9	7.1	8.3
Mining	18.7	17.4	25, 2	21. 9
Transportation		6.5	.4	
Railroad		3.4	3.3	4.1
Air		2.5	-9.0	-10.3
Other		14.1	7.2	7. 7
Public utilities	4.4	8.0	5.1	4.
Electric	1.7	7.6	2.9	2.6
Gas and other	16. 1	9.6	13.7	10.
Trade and services	3.2	6.3	4.2	6.
Communication and other.	6.2	13.4	11,1	13.

^{1.} Includes industries not shown separately.

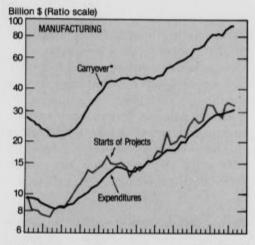
^{1.} Plans have been adjusted for biases (table 6, footnote 1). The adjustments were made for each industry. Before adjustment, plans for 1981 were \$130.14 billion for manufacturing and \$191.65 billion for nonmanufacturing. The net effect of the adjustments was to lower manufacturing \$3.35 billion and to raise nonmanufacturing \$3.07 billion.

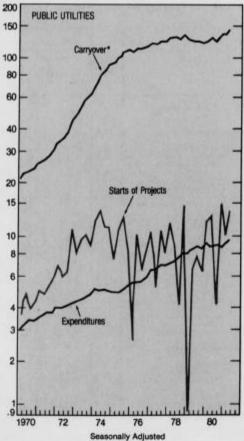
In nonmanufacturing, public utilities and trade and services accounted for the

higher spending levels.

Plans indicate that spending will increase 2 percent in the third quarter and 3 percent in the fourth. The levels of planned spending in these quarters are little changed from those reported in

Starts and Carryover of Investment **Projects**





*Carryover as of end of period.

U.S. Department of Commerce, Bureau of Economic Analysis

Table 2.—Expenditures for New Plant and for New Equipment by U.S. Nonfarm Business [Billions of dollars; quarters seasonally adjusted at annual rates]

	1979	1980	19	79		19	190		190	81
			m	IV	1	11	ш	IV	1	11
Total nonfarm business Plant Equipment	270, 46 105, 73 164, 73	295. 63 117. 55 178. 08	273, 15 106, 58 166, 56	284,30 108,60 175,70	291, 89 115, 96 175, 93	294, 36 116, 50 177, 86	296, 23 117, 59 178, 64	299, 58 120, 27 179, 32	312, 24 128, 57 183, 67	316, 73 131, 03 185, 68
Manufacturing	30, 82	115, 81 36, 06 79, 76	100, 11 31, 39 68, 71	106, 57 31, 82 74, 76	111, 77 33, 83 77, 94	115, 69 36, 35 79, 35	116, 40 37, 09 79, 31	118, 63 36, 89 81, 74	124, 50 39, 03 85, 47	125, 41 40, 26 85, 23
Durable goods	14,00 37,07 47,61 16,83	58, 91 16, 28 42, 63 56, 90 19, 78 37, 12	52, 13 14, 12 38, 01 47, 97 17, 27 30, 70	55, 03 14, 89 40, 14 51, 55 16, 93 34, 62	58. 28 16. 48 41. 79 53. 49 17. 35 36. 14	59, 38 16, 99 42, 38 56, 32 19, 35 36, 96	58, 19 16, 72 41, 47 58, 21 20, 37 37, 83	59, 77 15, 27 44, 50 58, 85 21, 62 37, 24	61, 24 16, 50 44, 74 63, 27 22, 54 40, 73	63, 10 16, 60 46, 50 62, 40 23, 66 38, 73
Nenmanufacturing	171.77 74.90 96.87	179, 81 81, 49 98, 32	173, 94 75, 19 97, 85	177.73 76.78 100.95	180, 13 82, 13 98, 00	178, 66 80, 15 98, 51	179, 83 80, 50 99, 33	180, 95 83, 37 97, 58	187.74 89.54 98.20	191, 24 90, 79 100, 48
Mining	5, 75 5, 63 12, 35 2, 75 9, 60 33, 96 21, 61 12, 35 79, 26 32, 39 46, 87 34, 83 12, 41	13, 51 7, 75 5, 76 12, 09 9, 10 35, 44 23, 00 12, 44 81, 79 35, 23 46, 56 36, 99 12, 52 24, 46	11. 40 5. 85 5. 55 12. 67 2. 81 9. 87 35, 05 22. 62 12. 43 78. 86 31. 72 47. 14 35, 05 12. 19 22. 86	11. 86 6, 36 5, 51 13, 20 2. 87 10. 32 34. 08 21. 41 12. 67 82, 69 33, 68 49, 00 35, 90 12. 46 23, 44	11. 89 6, 52 5, 37 12. 47 3, 22 9, 25 36, 26 23, 64 12, 62 82, 17 36, 13 46, 04 37, 34 12, 62 24, 72	12, 81 7, 11 5, 70 12, 09 2, 93 9, 16 35, 03 22, 55 12, 48 81, 07 34, 30 46, 77 37, 66 13, 25 24, 40	13, 86 8, 20 5, 66 12, 23 2, 95 9, 28 35, 58 22, 66 12, 92 81, 19 34, 10 47, 08 36, 97 12, 59 24, 38	15, 28 9, 01 6, 27 11, 70 2, 96 8, 73 34, 96 23, 10 11, 86 82, 91 36, 57 46, 35 36, 11 11, 73 24, 38	16, 20 9, 98 6, 22 11, 74 3, 13 8, 61 36, 05 23, 01 13, 04 83, 43 39, 63 43, 80 40, 32 13, 79 26, 53	16, 80 11, 07 5, 73 11, 70 3, 18 8, 52 37, 84 25, 22 12, 55 85, 88 38, 59 47, 29 39, 02 12, 66 26, 36

^{1.} Includes construction; social services and membership organizations; and forestry, fisheries, and agricultural services.

Table 3.—Starts and Carryover of Plant and Equipment Projects, Manufacturing and Public Utilities

[Billions of dollars]

				Sta	arts 1				Carryover 2						
	1979	1980		1	980		1	981		19	180		19	981	
	1		1	11	III	ıv	I	п	Mar.	June	Sept.	Dec.	Mar.	June	
Manufacturing	112, 98	123.32	31.35	29. 92	27, 26	34. /9	34, 88	33, 01	82.60	83, 66	81.94	82, 85	90.84	92, 4	
Primary metals. Electrical machinery Machinery, except elec-	59. 18 7. 72 8. 16	7.91	15.31 2.42 2.53	13, 21 1, 36 2, 78	13, 39 1, 94 2, 33	15. 76 2. 20 2. 62	15.30 2.07 2.36	17. 98 2. 89 2. 67	39. 49 7. 91 4. 78	37,90 7,36 5,35	7, 23	35. 48 7. 30 4. 74	7,78	8.68	
trical	12,66 19,61 3,70		4, 08	2.18 4.08 .84	2.52 3.53 .51	3, 03 4, 80 1, 02	3, 33 4, 81 , 94	3.78 6.04 .61	6.83 12.82 2.45	6. 15 12. 18 2. 28		5. 54 10. 97 1. 92	11.65		
Nondurable goods ³ Food including beverage. Paper. Chemicals Petroleum	53, 80 7, 49 6, 67 12, 34 18, 26	65. 65 7. 41 7. 74 14, 01	16, 03 1, 40 1, 97 4, 10	16.72 1.98 2.06 3.41 6.68	13, 87 1, 77 1, 45 3, 07 5, 81	19, 02 2, 26 2, 26 3, 44 8, 46	19.58 1.87 1.39 3.83 9.79	15. 03 2. 53 1. 31 2. 74 5. 40	43. 11 4. 84 5. 91 11. 01 15. 86	45.76 4.85 6.30 11.23	45.14 4.80 6.04 11.08 18.15	47. 38 4. 98 6. 23 10. 99 20. 06	53.30 5.03 6.15 12.10	52, 77 5, 44 5, 87 11, 84	
Public utilities	21.67	43.69	19, 96	7.67	1,92	14. 14	18.90	8.96	130, 05	128, 88	121.83	126, 35	137.30	136, 79	
						8	easonal	lly adju	sted					- 22.00	
Manufacturing			32, 43	29, 41	27.74	33. 53	35. 41	32, 90	82. 16	82, 65	81, 29	85. 16	89, 44	90, 97	
Primary metals Electrical machinery Machinery, except elec-	::::::		15, 70 2, 56 2, 50	12.39 1.37 2.79	13, 94 1, 94 2, 57	15. 48 2. 08 2. 39	15, 50 2, 15 2, 34	17.49 2.87 2.62	39. 44 7. 85 4. 68	36.99 7.27 5.17	36, 38 7, 21 5, 25	39, 62 7, 50 5, 11	37. 12 7. 69 5. 00	38.84 8.52 4.96	
trical. Transportation equip- ment	•••••		2.97 4.30	2.06 3.33	2. 52 3. 83	3, 12 4, 92	3, 26 5, 62	3.82 5.51	6.84 12.99	6.02	5.78 11.14	5.81 11.42	5.90 11.69	6.48	
Stone, clay, and glass Nondurable goods * Food including beverage Paper Chemicals Petroleum			1, 05 16, 73 1, 61 1, 97 4, 43 5, 66	.74 17, 02 1, 97 2, 08 3, 28 7, 44	13,80 1.83 1.59 2.91 5.65	1. 07 18. 04 1. 99 2. 10 3. 48 7. 73	.84 19, 90 2, 05 1, 36 3, 90 9, 71	.58 15.41 2.60 1.27 2.74 6.11	2.44 42.72 4.80 5.82 11.10 15.38	2, 21 45, 66 4, 87 6, 19 11, 16 18, 03	1.86 44.91 4.83 6.06 10.77 18,32	2.03 48.24 5.00 6.41 11.28 20.22	2.05 52,32 4.92 6.03 11.98 23.60	1.86 52,13 5.47 5.70 11.72 23.20	
Public utilities			12.01	12, 96	4, 20			13,78	128, 72	128, 72	124, 03	130, 16	131. 25	135. 57	

Starts are estimated by adding changes in carryover to expenditures during the given period.
 Carryover refers to expenditures yet to be incurred on plant and equipment projects already underway at the end of the period.
 Includes industries not shown separately.

the April-May survey; downward revisions in manufacturing were offeet by upward revisions in nonmanufacturing.

Spending for new plant increased 2 percent in the second quarter, to an annual rate of \$131.0 billion; spending for new equipment increased 1 percent, to \$185.7 billion (table 2). Spending for new plant was 41.4 percent of total capital spending and spending for new equipment was 58.6 percent.

The Economic Recovery Tax Act of 1981, embodying the President's economic program of tax changes and other measures designed to stimulate investment, was signed in mid-August while the latest survey was being conducted. (For a description of the major features of the Act, see pp. 5-6 of the August Survey of Current Business.) Because of the uncertainties as to the specific provisions to be contained in the Act prior to its passage by Congress and because experience indicates that changes in investment plans by business in response to changing economic conditions and Government actions usually require several months, it is unlikely that the impact of the new measure would have been reflected appreciably in the survey results. Continued high interest rates and depressed cash flows could further delay or dampen the response by business to the new investment incentives.

Manufacturing Programs

For the year 1981, manufacturers plan a 91/2-percent spending increase— 12 percent in nondurables and 7 percent in durables; last year, manufacturers increased their spending 1714 percent. In nondurables, the largest planned increase for 1981 is in the petroleum industry, 27 percent. Food-beverage plans a 13-percent increase, and "other nondurables," 91/2 percent. Small declines are planned by textiles and paper. In durables, the largest planned increase is in "other durables," 16½ percent, and reflects atrong increases by producers of instruments and miscellancous manufactured products. Nonelectrical machinery plans a 15-percent increase. Other sizable increases—131/2-11 percent—are planned by motor

Constant-Dollar Estimates of Plant and Equipment Expenditures

Tables A and B introduce estimates of plant and equipment expanditures in 1972 dollars; the methodology and estimates for earlier periods are presented in the article beginning on p. 21. The tables below will be included in this quarterly article.

Table A.—Expenditures for New Plant and Equipment by U.S. Nonfarm Business [Billions of 1972 dollars; quarters seasonally adjusted at annual rates]

	1979	1980	19	70		19	60		19	61
			щ	īv	ī	п	эπ	IV	I	π
Tatal Naufarm Business	157. 29	(55, 52	357. 0 0	180.91	ME.87	169, 27	157.38	365.43	159,94	167,2
Managastaring	55.26	MA. 10	55.84	68.16	64.25	69.68	59.86	63.69	61. 98	10,1
Durchie gaoda Prioury motals Blast horners Nonterrous metals Pabricated media Rectrical machinery Machinery, encept electrical Transportation equipment hoter vehicles Aircraft Store, day, and glass Cther doubles	1.68 2.74 4.28 7.04 8.47 1.04	1.4000000000000000000000000000000000000	30, 93 31, 77 1, 25 1, 44 1, 64 1, 67 2, 67 2, 27 2, 2	18. 11 8. 96 1. 31 1. 72 8. 91 9. 83 9. 16 2. 41	2.20 2.20 2.20 2.20 2.20 2.40 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.5	32.46 1.86 1.86 1.45 1.45 1.45 1.45 1.45 1.45 1.45 1.45	31, 14 4,02 1,02 1,02 1,12 6,12 4,50 4,50 2,55	113.385 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.425 1.42	11.837031703170 11.13703170 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11.13700 11	12.00
Nondershie goods Food braiseling beverage Taxtiles Paper Chemicals. Petrolsum Rubber Caler mondershies	3,18 6,08 7,74	25, 32 8, 92 9, 64 6, 67 6, 90 3, 34	25.82 3.65 .69 2,17 6,31 7.70 1,23 2,28	27. 07 3. 83 . 80 3. 30 6. 30 8. 51 1. 15 8. 64	27,18 2.03 .88 2.56 6.88 8.35 1,01	28, 46 4, 05 . 84 3, 86 0, 78 8, 56 . 93 3, 82	28, 74 2, 93 . 80 3, 67 6, 89 9, 31 . 97 3, 17	26, 17 3, 78 , 88 3, 04 6, 13 9, 59 , 82 3, 84	29. 97 4.37 .70 8.55 6.56 10. 42 .80	25.3 3.9 3.1 3.1 5.5 16.2 .8
Normanulariuring	192, 92	N. 4	100,74	MS.72	២,ជ	98,66	97. dd	11,12	97.98	\$6.8
Hening Transportation Public ntillities Trade and servines Wisolstale and retail trade Pinathet, limitance, and real state Personal, bisiness, and prof. sves. Cammunication and other Communication	0.88 18.27 48.06 13.48 18.81 16.79 22.70	5,25 6,12 17,47 47,16 13,11 18,16 18,16 17,11	5,04 0,98 18,60 48,30 13,32 18,52 18,52 76 17,03	5,10 7,08 17,79 49,88 13,74 19,62 16,52 22,98 17,50	4.63 4.50 10.61 12.66 16.68 23.51 18.15	6.11 8.13 17.47 48.00 12.00 18.27 18.27 18.27	8.32 6.13 17.33 (4.60 11.82 18.77 18.00 18.00	5.65 5.74 10.55 46.94 10.98 19.81 18.35 21.09	6. 77 6. 71 16. 82 46. 45 10. 94 18. 83 16.07 23. 23 17. 70	5.6 5.5 17.0 40.7 11.6 16.3 10.6 21.0

Includes industries not shown expansion.
 Includes construction; social services and mambership organizations; and forestry, februies, and agriculture 1 services.

Table B.—Expenditures for New Plant and for New Equipment by U.S. Nonfarm Business (Billions of 1972 dollars; quarters seasonally adjusted at annual rates)

					1		1961			
	1970	L050		79		15	80		19	<u> </u>
	1014	LIPOU	IEI	IV	I	и	щ	IV	r	111
Tetal neafac m basiness Plant Equipment	167, 28 53, 81 103, 47	558, 52 52, 92 105, 61	161,44 53,64 164,64	199,95 52,75 108,16	\$61,87 54.76 107.10	100, 27 52, 67 100, 79	167.54 61.67 105.49	166. 41 52. 16 103. 46	159, 54 56, 24 104, 70	157, 21 64, 33 102, 87
Manafeziaring Plant Equipment	14.04	68, to 15, 34 44, 76	65. 84 15. 13 40. 72	58. 88 14. 74 48. 44	60.29 16.24 64.07	64, 61 16, 70 44, 91	59. 66 18. 43 44. 40	59.69 [4.62 44.77	64.86 30.73 40.24	44, 70 44, 70
Durable goods	7.26 23.28 26.71 7.71	31, 78 7, 59 24, 20 25, 32 7, 75 20, 67	30.03 7.25 22.78 24.52 7.58 17.03	31, 11 7, 39 23, 71 27, 07 7, 35 19, 73	32.32 7.37 37.31 7.31 20.60	32.16 7.88 24.27 26.46 7.82 20.66	31, 14 7,68 23, 51 28, 74 7,88 20,88	31.88 0.89 34.63 34.63 6.43 8.44	\$1, \$9 7, 43 24, 68 26, 67 8, 21 31, 65	71.07 7.28 24.81 24.80 8.42 11.89
Neumantscheing Plant Egalposent	38, 82	98.42 37.58 60.65	191.74 30.41 62.34	102.72 35.00 54.72	101, 63 30, 60 62 13	86, 58 37, 18 51, 48	47.45 36.39 63.00	41, 82 77, 24 58, 68	17,18 91.51 92.66	94.83 93.66 53.68
Mining Plant Equipment Transportation Plant Equipment Public tillities Plant Equipment Trade and Services Plant Equipment Communication and other (Plant Equipment	2.008844170070040040070040070	22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5,000 15,500 15,500 15,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,500 16,	6.252.77.1.6.17.02.238.19.19.19.19.19.19.19.19.19.19.19.19.19.	4 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	6.11 2.2 6.33 17.44 17.44 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 10.33 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^{1.} Includes construction; social services and mambership organizations; and forestry, deherics, and agricultural services.

Table 4.—Manufacturers' Capacity Utilization Rates: Operating Rates and Ratios of Operating to Preferred Bates (

			Servoor	n'i rajase	uj								
		Ó	perating ra	ine (percen	νÞ		Ratios of speciting to preferred rates						
Industry and asset size		19	<u>, , , , , , , , , , , , , , , , , , , </u>		19	er .		19	1981				
	May.	June	Sept.	Dec.	Mar.	June	Mgr.	June	Sept.	Deq.	Mar.	June	
Al manifestring	64	74	74	78	78	76	0,26	t.81 l	0.61	0.81	r.m	9.64	
Acset size: \$100.0 million and over 400.0 to 199.9 million Under \$10.0 million	62 79 74	. 17 17 10	778 78 71	80 78 72	80 78 74	79 78 78	. 87 . 65 . 80	.82 .83 .77	. 83 . 84 . 79	.83 .84 .79	. 84 . 84 . 80	.84 .64 .81	
Durable goods 2	80	74	75	78	77	77	.84	.79	ות.	.63	.62	.82	
Asset size: \$100.0 million and over. \$10.0 to \$99.9 million. Under \$10.0 million	89 77 78	75 78 70	76 74 71	80 78 79	70 75 72	79 78 71	, 88 , 83 , 79	79 79 72	. 84 - 84 - 78	. 84 . 81 . 71	, 83. - 34. - 77	.83 .81 .78	
Primary metals. Electrical machinery. Sactrinery, except destrical. Transportation equipment 3. Motor vehicles Aircraft. Stone, clay, and grass.	88 91 70 75	60 78 60 78 71	64 70 89 71 67 78	77 79 80 74 70 80	78 18 17 77	7760888878787878787878787878787878787878	# 88 # 8 # 8 # 8 # 8 # 8 # 8 # 8 # 8 #	. 74 . 85 . 80 . 80 . 84 . 78	. 70 . 84 . 94 . 73 . 85 . 80	. 85 . 86 . 75 . 70 . 86 . 81	.86 .84 .74 .69 .29	.83 .84 .95 .75 .72 .81	
Nexifurable goods 1	81	71	78	78 -	78	60	.#	, в	.84	.85	.શ ે	Д,	
Angel give: \$100.0 million and over. \$100.0 million. Under \$10.0 million.	80	57 89 80	献 凯 71	60 60 72	8£ 1 62 75	80 81 78	.69 .68 .82	.85 .84 .77	. 84 . 67 . 79	. 87 . 86 . 79	. 88 . 88	.87 .87 .84	
Food inchiding biverage. Textiles. Paper. Chemicals. Patroleum. Rubber.	T 整图 配验社	77 70 85 70 82 83	76 79 87 70 70	75 67 67 67 67 67 67 67 67 67 67 67 67 67	70 SP 12 75	7927	88 58 F	338888 8888 8888	. 85 . 64 . 85 . 81	. 84 . 82 . 86 . 83		.86 .92 .86 .80	
Primary-precessed goods 1	8L 59	76 74	74	15 18	16 78	꿞	. 58 . 84	:#;	.19 58,	,84 ,83	. 23 He,	.84 *83	

^{1.} The survey sake manufacturers to report actual and preferred suter of capacity utilization for the last manth of each quarter. Utilization rates for industry and asset-size groups are weighted averages of individual company rates, See "The Utilization of Manufacturing Capacity, 1965-73," Survey or Curagest Boussess, July 1974, p. 47.

2. Also includes lumber, furniture, abstracted metals, lastruments, and miscellaneous.

3. Also includes other transportation equipment.

4. Also includes tabarra, apparel, printing-publishing, and leather.
5. Consists of hymber; stone, day, and glass; primary metals; fabricated mutals; tabilies; paper; chemicals (at 15 weight); petrelemn; and robber.
6. Consists of furniture, electrical machinery, machinery except electrical, motor vehicles, termit, other transpariation equipment, instruments, food including beverage, tobseto, apparel, printing-publishing, chemicals (at 15 weight), leather, and other limitedus.

vehicles, nonferrous metals, and electrical machinery. Stone-clay-glass plans a 15-percent decline; smaller declines are planned by aircraft, fabricated metals, and iron and steel.

Spending by manufacturers increased 1 percent in the second quarter, to a seasonally adjusted annual rate of \$125.5 billion, after a 5-percent increase in the first quarter. A 21/2-percent increase is planned for the third quarter; the increase is in nondurable goods industries. In the fourth quarter, a onehalf of 1 percent decline is planned; nondurable industries account for it.

Manufacturing projects started in the second quarter totaled \$32.9 billion, 7 percent less than in the first quarter (table 3 and chart 5); the decline was in nondurable goods, where it was concentrated in the petroleum and chemical industries. Paper reported a small decline. Durable goods industries reported a sizable increase; primary

Table 5.—Manufacturers' Evaluation of Their Plant and Equipment Facilities: [Percent distribution of gress depreciable atests]

					,			
		79		39	80		1)	91
	Sept. 80	Dec. 31	Mer. 31	June 80	Bept. 80	Dec. 31	Mar. St	June 20
More plant and equipment prested:	<u> </u>			<u> </u>				· ·
All manufacturing. Durable goods Primetry metals. Metal produces Nondurable goods Feed including beverage. Chemicals and petroleum.	35.8	#1.2 85.0 92.5 44.1 38.5 47.4 43.0	24,5 82,9 17.8 42,4 37.9 44.7 44.9	32.0 20.1 9.9 41.4 34.9 40.0 (1.9	12.4 29.0 10.8 40.5 31.9 41.5 41.9	36.6 26.8 10.6 36.3 34.7 43.0	30.4 20.9 14.0 31.0 31.0 41.0 60.0	31, 3 27, 4 18, 9 34, 7 35, 1 41, 9 41, 2
About adequate:				ļ		li		İ
All manufacturing. Durable goods Friguery metals. Metal products? Nondumble goods Food incinding beverage. Chemicals and petroleum.	57.6 78.0 69.1 88.7 47.0	57. 5 67. 6 71. 6 48. 2 58. 7 44. 4 56. 5	81.1 87.9 74.1 48.8 51.4 47.4 54.1	57.1 57.1 70.5 48.5 60.1 48.6 56.8	57. 3 73. 3 48. 5 60. 7 50. 9 58. 6	60.8 56.8 72.6 53.8 62.0 42.4 .66.5	61.9 67.8 67.3 61.9 60.7 68.8	68.2 68.2 88.7 88.0 61.8 82.3
Existing plant and equipment exceeds needs:								
All one-of-sciuring Durable goods Primary metaba. Menal predicts Nondurable goods Food including beverage. Chemicals and patroletan	45 62 7	\$7.87825 \$7.8425	4.2 8.2 8.7 8.7 1.0	9,3 (2,6) (0,1) (0,1) (0,1) (0,1) (1,2)	2.0 12.7 10.8 10.8 4.4 7.8	8.44 18.99 27.99	4.0 12.6 17.5 4.6 4.6 1.2	16.2 13.6 14.6 6.1 7.5

According to respondent companies' characterizations of their plant and equipment facilities, taking into account their current and prospective sales for the next 22 months.
 Includes industries not above separately.
 Includes machinery, transportation equipment, and faintented metals.

Table 6.—Expenditures for New Plant and Equipment by U.S. Nonfarm Business !

						(油瓜)	ons of d	chare											
·		"				6	(Neona)	y ozsadj	poled				800	опайу	edjustee	M 415	ngai rat		
	1970	0901	198L ·	·	10	80			78	BL .			19	60		•	Ja	81	
				t	п	ш	ΙΔ	ı	п	m.	ĬΔı	ï	u	ııı	IV	ī	IL	יש	IV.
Total Mentern Business	20,48	236,61	321.50	65.18	74,02	74.88	红河	69.76	79.60	80.42	9L 73	291.89	254.36	296. 23	290,08	312, 24	314.73	32 <u>7.</u> 56	332, 59
Manufacturing	35,48	HEE, BL	124.78	34.19	24. pš	28.98	\$3,87	24,50	31.39	31.84 j	34.68	EL L. 77	rierea	116.44	148.43	£24, 50	125.49	128,72	126.11
Durable goods. Primary metals. Blast furnical, steel works. Numicrous metals. Estimated metals. Estimated machinery. Mechinery, except electrical Transportation equipment. Motor vehicles. Aircraft. Stone, sizy, and glass. Other durables.	0.3039038383838383838383838383838383838383		43,92 8,23 3,50 2,65 10,31 10,31 10,31 10,31 10,31	13.54 1.60 .67 1.83 2.88 3.90 2.00 1.90	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	14.46 2.86 2.27.47 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.24.27 2.2	17. 65 2. 13 - 68 - 78 3. 20 2. 60 2. 60 1. 68	(4, 24) 1, 762 2, 2, 2, 2, 47, 20 1,	15,83 1,99 1,99 1,72 2,52 2,10 1,72 1,90 1,90 1,90 1,90 1,90 1,90 1,90 1,90	1. 67 1. 67 1. 67 1. 68 1. 78 1. 78	18.88 2.096 3.86 4.47 2.80 4.20 5.87 1.72	## 28 7.874 2.14 8.83 11.00 8.780 4.84	41, 29, 29, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	58, 10 8, 02 3, 39 3, 06 9, 97 11, 06 17, 64 6, 70 3, 74 4, 81	69,77 7,17 2,80 2,72 10,10 12,86 8,57 3,20 3,20 1,20 1,20 1,20 1,20 1,20 1,20 1,20 1	61, 24 7, 24 2, 48 2, 48 2, 79 12, 66 18, 68 4, 78	63.10 8.14 2.82 2.82 10.62 12.04 19.38 10.22 7.40 6.80	######################################	64.08 8.35 8.35 9.008 102.75 10.85 8.35 10.85 8.35 10.85 8.35 10.85
Nondurable goods. Food including beverage. Testiles. Paper Chemicals. Patrolenan. Kubber Other nondurables 1	1,50 5.55 50.78 16.23 2.17	64,39 1,42 0,80 12,80 20,60 1,73 0,08	64, 87 2.34 1.50 2.50 2.50 1.60 0.65	11,48 1,52 ,40 1,47 2,66 3,94 ,41 1,27	14,65 1.67 .41 1.66 3.19 4.75 .44 1.84	以	M. 200 200 200 200 200 200 200 200 200 200	以 4 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	7、44年,20年 1945年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1948年 1	1. 55 1. 55	2.34 2.34 3.88 3.78 7.54 1.84	47.44 7.44 1.68 12.60 18.00 1.84 5.82	66, 37 7, 61 1, 60 4, 82 12, 87 19, 16 1, 72 0, 62	60, 21 7, 46 1, 53 6, 52 13, 19 21, 46 1, 58 5, 52	58, 84 7, 20 1, 79 8, 90 11, 87 23, 30 1, 67 6, 12	63, 27 5. 55 1. 63 6. 69 12. 51 23. 33 1. 74 6. 37	62,40 8.16 1.82 8.42 12.91 28.63 1.75	65,65 8,51 1,56 6,48 12,67 27,63 1,53 1,53	44,05 8,21 3,09 8,42 12,89 28,00 1,86 7,00
Neorasanfacturing	171,77	173.81	II 44,71	47.48	45.16	46. [3	48.44	42.85	44,31	48.58	56,47	180.13	178,46	(79,81	IM, 15	187.74	191. 24	194,23	294.66
Mining	L	13.51	16.47	2.74	2.27	a. 50	4.01	3.50	1.25	4.03	1.45	1£.89	12.81	T5'80	15.28	16.20	10.60	10.12	16.70
Transportation. Rairoad. Air. Other.	12	12.00 4.25 4.04 3.63	12.18 4.43 3.00 4.12	2 13 -90 -90 -84	2,31 1,00 1,27 ,18	3,00 L 00 . 03 L 07	3. 03 1.20 .91 .94	2,50 -90 -95 -74	1.12 1.13 1.03	2,73 1.05 .63 1.04	1.30 1.30 1.40 1.31	12.47 4.46 8.90 4.11	12 09 4.06 4.27 5.76	12.23 3.08 4.06 4.18	11.70 4.84 3.77 8.30	11,74 4,28 3,85 3,66	11.70 4.28 1.29 4.04	11.07 4.22 2.84 4.00	12.00 4.64 4.44
Public nulliues Electric Gas and other,	10. NO 27. 65 6. 81	83. 44 28. 13 7, 20	36.91 26.84 8.07	8.01 6.04 1.37	2.84 7.07 1.77	8,97 0,89 2,08	8.62 7.58 2.10	7.05 8.36 1.69	9.47 7.87 2.10	8.28 7.21 2.07	HL 2) 7, 89 2, 32	38,28 28,98 7,28	35, 08 27, 01 7, 12	35.58 28.14 7.44	34, 90 27, 54 7, 41	26, 05 27, 60 8, 30	37, 84 29, 32 8, 53	30, 76 26, 41 7, 36	37,09 59,64 6,16
Trade and services Wholesale and retail trade Phance, ingurance, and real entate Personal, business, and pref. eyes	22.01	85, 78 21, 78 81, 91 28, 08	87, 30		20, 23 5, 54 7, 77 6, 93	29, 38 5, 48 7, 88 7, 03	拉 DD G 67 B.08 7.04	19, 41 4.78 7.63 7.00	23, 44 5, 40 8, 17 7, 81	21. 52	24.83	82 17 22 34 31 56 28 28	81.07 23.28 30.82 26.97	81, 19 21, 43 31,82 27, 91	82, 91 20, 25 38, 55 20, 11	83, 43 20, 57 32, 33 80, 03	85. 88 22. 54 32. 60 30. 74	B 6L 5.5	
Communication and other	22.78	80, 99 26, 16 10, 82	41.89	8. 3/3 6. 54 2, 46	8.43 8.77 2.75	9.28 6.60 2.68	0.87 6.76 2.01	9.20 0.50 2.78	1, 90 0, 93 3, 15	10.49	11.78	87.84 26.82 10.64	87.06 20.78 10.88	30, 97 20, 32 10, 6 6	#L IL 24.80 (L.22	11. 64 37. 68 69. \$2	\$9.03 27.43 11.57	49.70	

I. Bellmetes are based on planned capital expenditures reported by business in late July and August 1981. The planned expenditures for 1981 have been contacted for blaces. The advantant procedures are described in the October 2600 BURYET. Refers adjustment, plant for 1881 were \$221.79 billion for total business, \$130.14 billion for mainifecturing, and \$101.65 billion for nonmanufacturing.

metals, nonelectrical machinery, and transportation equipment reported the largest increases.

The value of new projects started by manufacturers in the second quarter exceeded their capital expenditures, rasulting in an increase in carryover. At the end of June, carryover totaled \$91 billion, \$1.5 billion higher than at the end of March.

Capacity utilization

The utilization of manufacturing capacity was 78 percent in June, unchanged from March and December (table 4); this rate is 2 points above the recession trough in June and September last year and 6 points below the prerecession peak of 84 percent in March 1979.

Utilization rates for most industry groups showed only small changes from March to June. The largest change was in motor vehicles, up 4 points, to 73 percent; nonelectrical machinery increased 1 point, to 90 percent. Stone-clay-glass declined 3 points, to 71 percent; aircraft, electrical machinery, and primary metals each declined 2 points, to 75, 76, and 77 percent, respectively. In nondurables, petroleum increased 8 points, to 76 percent, and textiles and rubber increased 2 points, to 82 and 77 percent, respectively.

Utilization rates for primary- and advanced-processed goods industries, at 78 percent, were unchanged from March to June.

The rate for large-sized firms declined 1 point, to 79 percent. The rate for medium-sized firms was unchanged, at 78 percent. Small firms increased 1 point, to 75 percent.

Manufacturing companies owning 311/2 percent of fixed assets reported a need as of the end of June for more facilities, an increase of 1 percentage point from the end of March (table 5). Facilities viewed as about adequate declined 8 points, to 581/2 percent, and those viewed as exceeding needs increased 2 points, to 10 percent,

Nonmanufacturing Programs

For the year 1981, an 81/2-percent increase is planned in nonmanufacturing; spending increased 4½ percent in 1980. All major groups except air transporta-

(test continued on p. 41)

Encludes industries not abown separately, Contains of humber, turniture, instruments, and miscellaneous. Contains of pherol, tobacco, leather, and printing-publishing. Contains of emitmotion; Social services and membership organizations; and forestry, crist, and agricultural services.